

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6293457").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:36
L2	2	("5316974").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:39
L3	2	("6025275").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:44
L4	2	("20040005771").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:44
L5	2	("20030129822").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 10:48
L6	2	("5700389").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/16 11:02
S1	55492	(438/584-757).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 19:07
S2	5280	S1 and copper with (interconnect or contact or metallization)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 08:53

## EAST Search History

S3	1036	S2 and (copper near5 etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:28
S4	41	S3 and seed near5 etch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/19 14:29
S5	81	S3 and (seed with etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 15:15
S6	55492	(438/584-757).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/22 11:55
S7	5280	S6 and copper with (interconnect or contact or metallization)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 08:53
S8	735	S7 and ((barrier or liner) near5 etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 08:53
S9	66	S8 and (seed with etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 08:54
S10	160	S8 and (seed same etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:05

## EAST Search History

S11	5117	(438/612-614).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/22 10:45
S12	1791	S11 and copper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:06
S13	84	S12 and dry adj etch	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:19
S14	68	S12 and ((barrier or liner) with etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:48
S15	25	"6222279"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:48
S16	83	"5162257"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:49
S17	98	"5508229"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:49
S18	96	("3655544"   "4880708"   "4922322"   "5094979"   "5108950"   "5118584"   "5124269"   "5208186"   "5266156"   "5324683").PN. OR ("5508229").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 09:50

## EAST Search History

S19	56	"5937320"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:51
S20	47	("5162257"   "5391514"   "5470787"   "5634268").PN. OR ("5937320").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 09:52
S21	36	"5486282"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:52
S22	44	"5462638"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 09:52
S23	28	("4310569"   "4486946"   "4491860"   "4732865"   "4753851"   "4787958").PN. OR ("4880708").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 09:53
S24	12	("3571913"   "4816424").PN. OR ("5094979").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 09:54
S25	29	("2566615"   "2876144"   "3468774"   "3601666"   "4331476"   "4410396"   "4486946"   "4491860"   "4671852"   "4711701"   "4740485"   "4782032"   "4787958"   "4814429"   "4849376"   "4880708"   "4927505").PN. OR ("5211807").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 10:02
S26	772	S11 and ((copper or Cu) with plat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:46
S27	867	S11 and ((copper or Cu) with (plat\$3 or electroplat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:56

## EAST Search History

S28	26	S27 and (seed with etch)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:47
S29	97	S27 and (barrier same (TiW or tungsten))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:47
S30	341	S27 and ((copper or Cu) with etch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:57
S31	54	S30 and (seed with etch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:57
S32	66	S30 and (seed same etch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 10:57
S33	9	("5478773"   "5541135"   "6222279"   "6372622"   "6413851"   "6429531"   "6501185"   "6521501"   "6586322").PN. OR ("6878633").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 11:01
S34	12522	S6 and ((barrier or adhesion) near5 layer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 11:55
S35	905	S6 and (layer near5 (dry adj etch))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 11:56

## EAST Search History

S36	384	S34 and (layer near5 (dry adj etch))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 11:56
S37	695	S34 and (layer with (dry adj etch))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 11:56
S38	161	S37 and (etch with ((carbon adj tetrafluoride) or "CF. <sub>4</sub> "))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 11:59
S39	5	S38 and ((nitrous adj oxide) or "N. <sub>2</sub> O")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:08
S40	0	S38 and (nitrous same carbon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 11:59
S41	9	S38 and (chloride same carbon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:03
S42	0	S38 and ("N. <sub>2</sub> O" same carbon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:08
S43	11	S38 and ((nitrous adj oxide) or "N. <sub>2</sub> O")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:08

## EAST Search History

S44	1	S38 and ("N. <sub>sub.2</sub> O" same carbon)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:20
S45	9607	(438/706-744).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/22 12:20
S46	2353	S45 and (carbon adj tetrafluoride or "CF. <sub>sub.4</sub> ")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:32
S47	77	S45 and (carbon same (nitrous or "N. <sub>sub.2</sub> O"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:33
S48	53	S46 and (carbon same (nitrous or "N. <sub>sub.2</sub> O"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:22
S49	7	S48 and (etch same (nitrous or "N. <sub>sub.2</sub> O"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:22
S50	20	("4374699"   "4381967").PN. OR ("4431477").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 12:24
S51	632	S46 and ((tungsten or refractory) same etch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:32
S52	38	S51 and ((carbon or "CF. <sub>sub.4</sub> ") same (nitrous or "N. <sub>sub.2</sub> O"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:33

## EAST Search History

S53	28	("4243476"   "4431477"   "4468284"   "4529475"   "4659426"   "4919750"   "4923828"   "4985990"   "5092967"   "5098516"   "5129991"   "5147500"   "5185058"   "5221366"   "5262001"   "5338398"   "5350484"   "5368687"   "5431774").PN. OR ("5814238").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 12:52
S54	413	(438/754).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/22 12:52
S55	206	S54 and copper	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:52
S56	96	S55 and (sulfuric or "H.sub.2" "SO. sub.4")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/08/22 12:53
S57	16	("3529350"   "3669776"   "3737306"   "3841931"   "3944496"   "4267012").PN. OR ("4443295").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 13:49
S58	15	("2908557"   "3650957"   "3770530"   "3926699"   "4110237"   "4410396"   "4430152"   "4443295"   "4459216").PN. OR ("4849124").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/08/22 13:53
S59	137	(216/78).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/22 15:16
S60	930	(438/720,742).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 19:08

## EAST Search History

S61	65	S60 and carbon adj tetrafluoride	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:13
S62	293	S60 and etch\$3 same barrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:13
S63	22	S61 and etch\$3 same barrier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:14
S64	26	S61 and etch\$3 same tungsten	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/02/15 19:15
S65	26	("4298419"   "4675073"   "4692205"   "4713141"   "4786360"   "4797178"   "4836886"   "4836887"   "4842687"   "5842676").PN. OR ("5108542").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 19:17
S66	23	("4183780"   "4349408"   "4529475"   "4579623"   "4617087"   "4713141").PN. OR ("5143866"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 19:19
S67	24	("4675073"   "4793896"   "4821085"   "4863559"   "4957590").PN. OR ("5122225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 19:19
S68	25	("3951709"   "4203800"   "4478678"   "4568410"   "4637129").PN. OR ("4786360").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 19:31
S69	432	(438/754).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 19:31

## EAST Search History

S70	2	("4849124").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 19:32
S71	15	("2908557"   "3650957"   "3770530"   "3926699"   "4110237"   "4410396"   "4430152"   "4443295"   "4459216").PN. OR ("4849124").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 19:32
S72	15	("2908557").URPN.	USPAT	OR	ON	2006/02/15 19:33
S73	10	("4130454"   "4374744"   "4849124"   "5066366"   "5391395").PN. OR ("5700389").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/02/15 19:37

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2/16/06